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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,803	07/22/2003	Amold Keller	246472005200	5304
Barry E. Bretse	7590 03/26/2007 chneider		EXAM	INER
Morrison & Foerster LLP Suite 300 1650 Tysons Boulevard McLean, VA 22102			RAMANA, ANURADHA	
			ART UNIT	PAPER NUMBER
			3733	
	-			
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

•	Application No.	Applicant(s)					
	10/623,803	KELLER, ARNOLD					
Office Action Summary	Examiner	Art Unit					
	Anu Ramana	3733					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tile 17 iiii apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 01 Fe	ebruary 2007.						
	•						
,	, —						
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1,3 and 4</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,3 and 4</u> is/are rejected.							
7) Claim(s) is/are objected to.		•					
8) Claim(s) are subject to restriction and/o	·= ···						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>22 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of:							
 Certified copies of the priority document 	s have been received.						
Certified copies of the priority document	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
	•						
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application							
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:							

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 1, 2007 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Caenen et al. (FR 2,718,635).

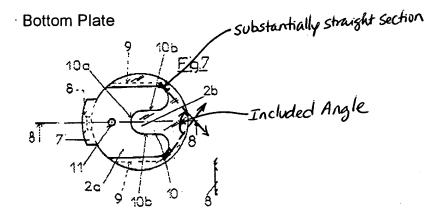
Caenen et al. disclose an intervertebral disc prosthesis including: two cover plates (1, 2) and a prosthesis core 3 connected to cover plate 2 by connection profiles undercut in a complementary manner wherein the connection profiles include at least a pair of substantially straight profile sections, i.e., profile sections that are largely but not wholly straight, disposed symmetrically with respect to an anterior-posterior direction of the prosthesis (Figs. 4, 5, 7 and 8 and pages 5-9 of the attached translation).

It is noted that lines could be extended from substantially straight sections where the undercut portions 9 curve inward such that the lines meet at an included angle not greater than 150 degrees. Similarly, lines could be extended

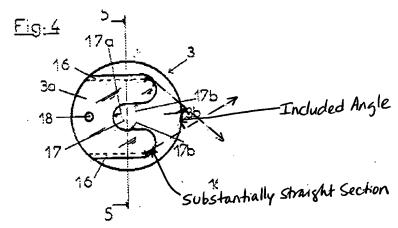
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from substantially straight sections of undercut portions 16 such that the lines meet at an included angle not greater than 150 degrees.

See marked up Figures from Caenen et al. below, to clarify Examiner's interpretation of Caenen et al..







Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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In the alternate, claims 1, 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Caenen et al. (FR 2,718,635) over Heldreth et al. (EP 0636352 A2).

Caenen et al. disclose a hub or core 3 positioned on a lower plate by means of a system preventing rotation around the axis of the prosthesis.

Caenen et al. disclose all elements of the claimed invention except for undercut portions that are inclined relative to one another.

Heldreth et al. teach a tongue and groove attachment between two components of a prosthesis that is continuous with a lead-in angle between 1 and 179 degrees to resist sliding and separation between the components (Figs. 1, 5, 8 and 9, col. 1, lines 25-47, col. 2, lines 43-58 and col. 3).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have provided a lead-in angle to the undercut portions of the Caenen et al. components, as taught by Heldreth et al., to prevent sliding and separation of the core and the bottom plate.

Response to Arguments

Applicant's arguments with respect to claims 1, 3 and 4 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anu Ramana whose telephone number is (571) 272-4718. The examiner can normally be reached Monday through Friday between 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached at (571) 272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AR March 18, 2007 Annada lawara